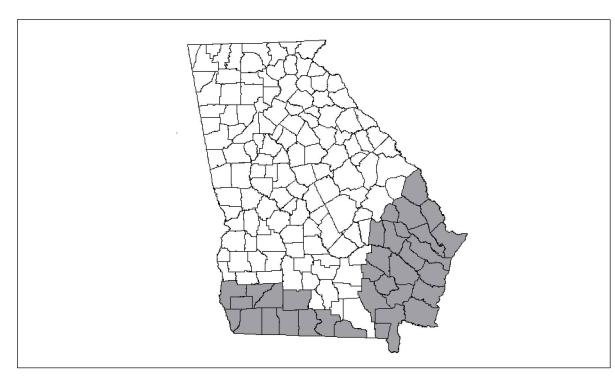
## UNITED STATES DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE

# GEORGIA STANDARD DRAWINGS - 20' WIDE, DEEP BIN, STAND **ALONE COMPOST FACILITY CONSTRUCTED WITH 6" X 6" POSTS**

- 1. THE FOLLOWING DRAWINGS WERE PREPARED IN ACCORDANCE WITH PRACTICE CODES 316-ANIMAL MORTALITY FACILITY AND GEORGIA BUILDING CODE (INTERNATIONAL BUILDING CODE 2006)
- 2. DESIGN DATA REQUIRED BY IBC 2006:
  - A) ROOF LIVE LOAD 20 PSF.
  - B) BASIC WIND SPEED OF 90 MPH AND GROUND SNOW LOAD OF 10 PSF OR BASIC WIND SPEED OF 100 MPH AND NO SNOW LOAD.
  - C) IMPORTANCE FACTOR, I=0.87
  - D) WIND EXPOSURE CATEGORY C.
  - E) INTERNAL PRESSURE COEFFICIENT = 0.55
- 3. THIS DESIGN IS NOT INTENDED FOR USE IN EXTREME SOUTH AND EAST COUNTIES OF THE STATE THAT ARE SUBJECT TO HURRICANE WIND LOADS (SEE MAP BELOW)
- 4. THIS DESIGN IS NOT INTENDED FOR CONSTRUCTION ON AN ISOLATED HILL, RIDGE, OR ESCARPMENT IN ANY REGION OF THE STATE.
- 5. ANY CHANGES TO THESE DRAWINGS MUST BE APPROVED BY AN ENGINEER WITH JOB APPROVAL LEVEL IV OR GREATER.
- 6. NO ADDITIONS SHOULD BE MADE TO STRUCTURE WITHOUT APPROVAL FROM NRCS.



THIS DESIGN IS NOT INTENDED FOR USE IN COUNTIES SUBJECT TO HURRICANE WIND LOADS SHADED GRAY ABOVE.

# THE NATURAL RESOURCES CONSERVATION SERVICE **HELPING PEOPLE HELP THE LAND**

 COMPOST FACILITY
COUNTY, GEORGIA

#### PRE-CONSTRUCTION CERTIFICATION:

COMPOSTING FACILITY HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING DRAWINGS AND PRACTICE CODES 316. ALL CHANGES HAVE BEEN APPROVED BY AN ENGINEER WITH JOB APPROVAL AUTHORITY LEVEL IV OR GREATER. ALL ADDITIONS HAVE BEEN APPROVED BY NRCS.

**OWNER** DATE NRCS DATE ENGINEER DATE REPRESENTATIVE (IF REQUIRED)

#### AS-BUILT CERTIFICATION:

THIS PRACTICE HAS BEEN CONSTRUCTED IN ACCORDANCE TO THESE PLANS AND MEETS NRCS STANDARDS AND SPECIFICATIONS.

NRCS **ENGINEER** DATE REPRESENTATIVE (IF REQUIRED)

COMPOSTING FACILITY:

JOB CLASS: \_

#### INDEX TO DRAWINGS:

SHEET 1 -COVER SHEET

SHEET 2 -PLAN VIEW ELEVATION VIEW FRONT VIEW GENERAL NOTES

SHEET 3 -ROOF FRAMING PLAN

SHEET 4 -GIRDER AND RAFTER TO POST CONNECTIONS HURRICANE STRAP HURRICANE CLIP

WOOD TREATMENT TABLE SHEET 5 -FIBER REINFORCED CONTRACTION JOINT CONCRETE POST FOOTING DETAIL MECHANICAL ANCHOR POST CONCRETE FOOTING DETAIL



Know what's **below**. **Call** before you d

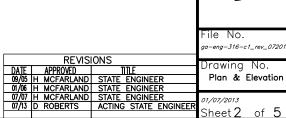
-eng-316-c1\_rev\_0720 Orawing No. Cover

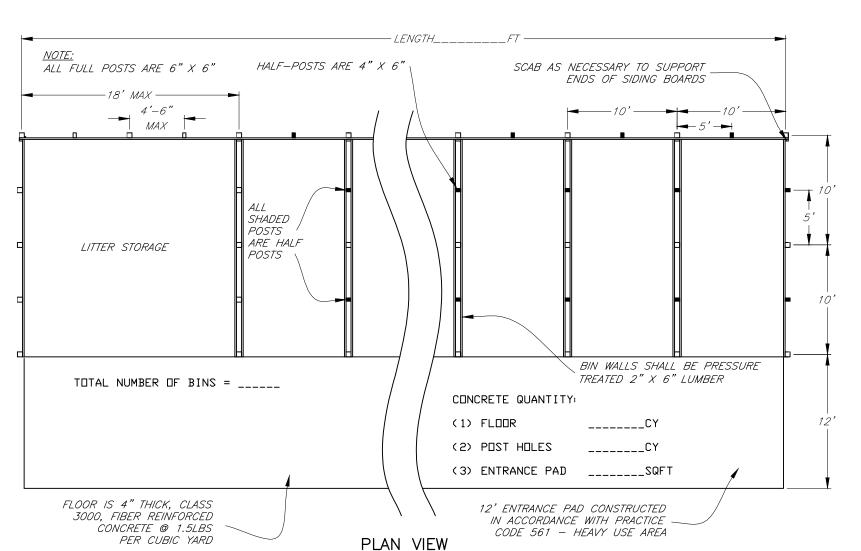
FACILITY Deep with  $\dot{\mathcal{O}}$ Structure 0  $\overline{\mathbb{W}}$  $\bigcirc$ Φ Alon GIA OR( (Stand  $\bigcirc$ 

Bins)

**ONRCS** 







#### NOTES:

- 1. ALL ENTRANCE AREAS SHALL BE STABILIZED USING PRACTICE STANDARD 561 HEAVY USE AREA.
- 2. ALL POSTS SHALL BE SET IN CONCRETE WITH CONCRETE OR GRAVEL FOOTING PAD (SEE CONCRETE POST FOOTING DETAIL ON SHEET 5).
- 3. THE BUILDING SITE SHALL BE CLEARED AND GRUBBED AS REQUIRED.
  PROPER DRAINAGE SHALL BE PROVIDED AROUND THE ENTIRE BUILDING
  SO THAT RUNOFF WATER DOES NOT ENTER OR POND NEAR BUILDING.
  DESIGN FOR ROOF RUNOFF IN ACCORDANCE WITH PRACTICE CODE
  558 ROOF RUNOFF MANAGEMENT OR STABILIZE SOIL AROUND
  BUILDING USING PRACTICE CODE 342 CRITICAL AREA PLANTING.
- CONCRETE FLOORS AND FOOTINGS SHALL BE PLACED ON FIRM SOIL. ALL LOOSE SOIL SHALL BE REMOVED. IF FILL MATERIAL IS USED, PLACE IN 9" THICK LAYERS AND COMPACT WITH SHEEPSFOOT ROLLER OR OTHER EQUIVALENT COMPACTION METHOD.
- 5. ALL LUMBER, INCLUDING THE POSTS, IN CONTACT WITH LITTER, COMPOST, OR CONCRETE SHALL BE PRESSURE TREATED (SEE WOOD TREATMENT TABLE ON SHEET 5).
- 6. ALL DIMENSION LUMBER SHALL BE SOUTHERN PINE NO. 2 OR BETTER.
- 7. ALL NAILS, BOLTS AND OTHER CONNECTORS SHALL BE OF HOT—DIPPED ZINC COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE, OR COPPER. NAILS SHALL HAVE SPIRALED OR RINGED (ANNULAR) SHANKS. ALL REFERENCES TO "GALVANIZED" IN THIS SET OF DRAWINGS REFERS TO THE ABOVE LISTED COATINGS.
- 8. ROOFING SHALL BE 29 GUAGE GALVANIZED METAL. SEALANT SHALL BE APPLIED TO ALL LAPS.
- 9. ON SITE WATER SOURCE IS NECESSARY TO MAINTAIN MOISTURE CONTENT OF COMPOST.

2" X 4" PURLINS

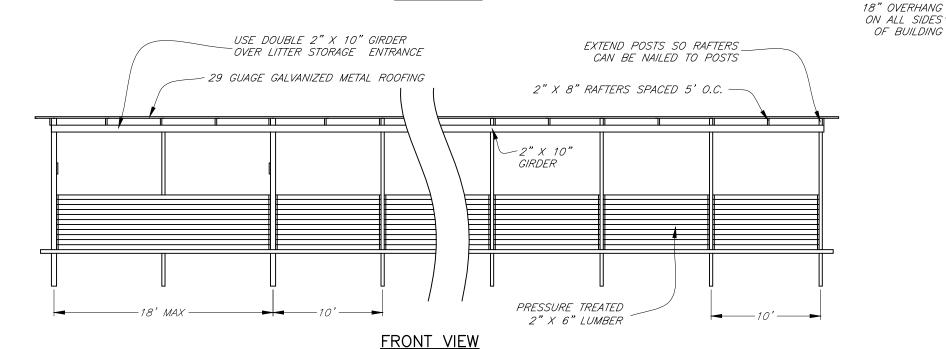
SPACED 24" O.C.

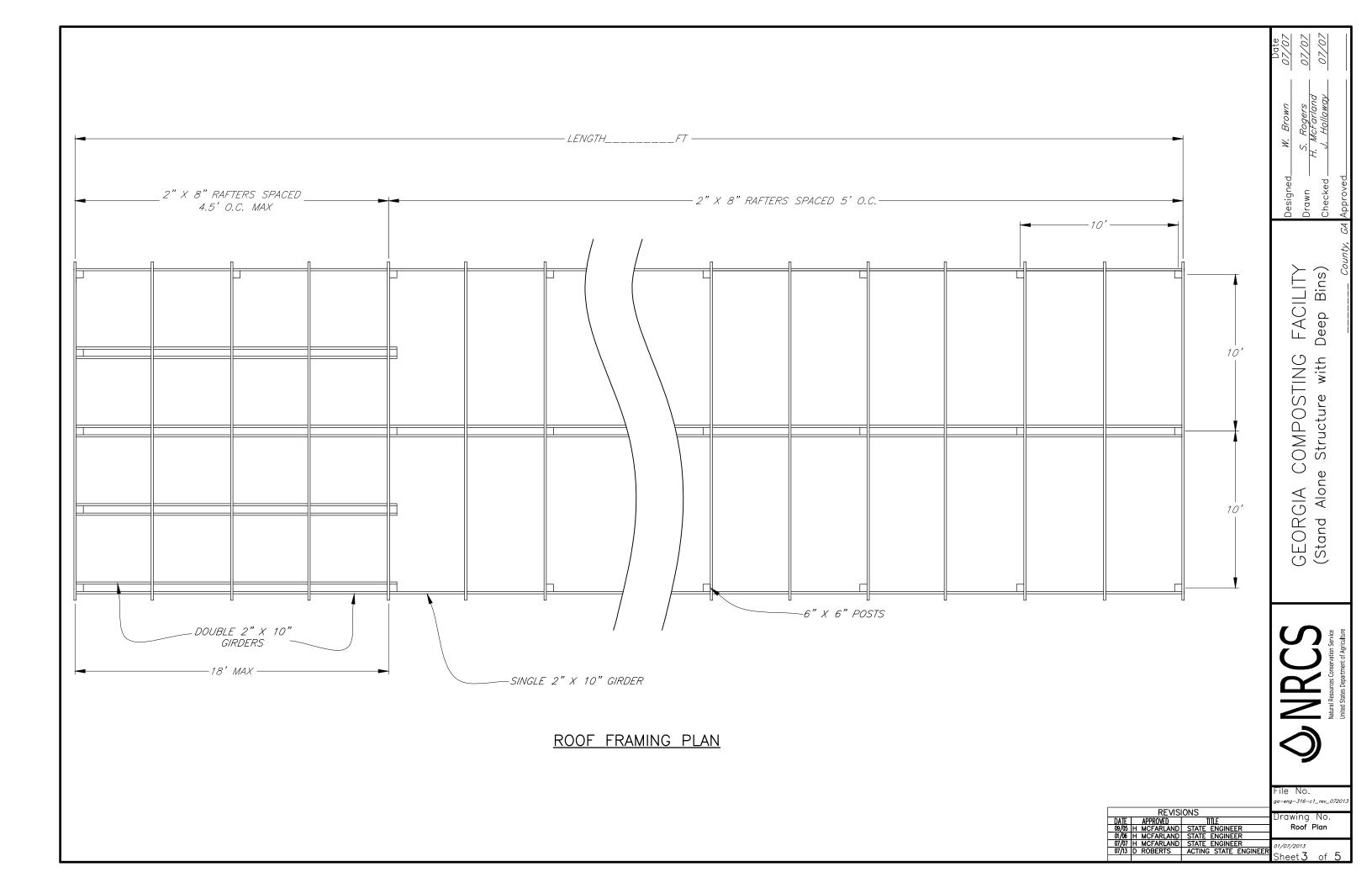
**ELEVATION VIEW** 

-10'

-2" X 8" RAFTERS

10. CALL BEFORE YOU DIG: 811, 1-800-282-7411 OR 770-623-4344.





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Detail 1

File No.

REVISIONS

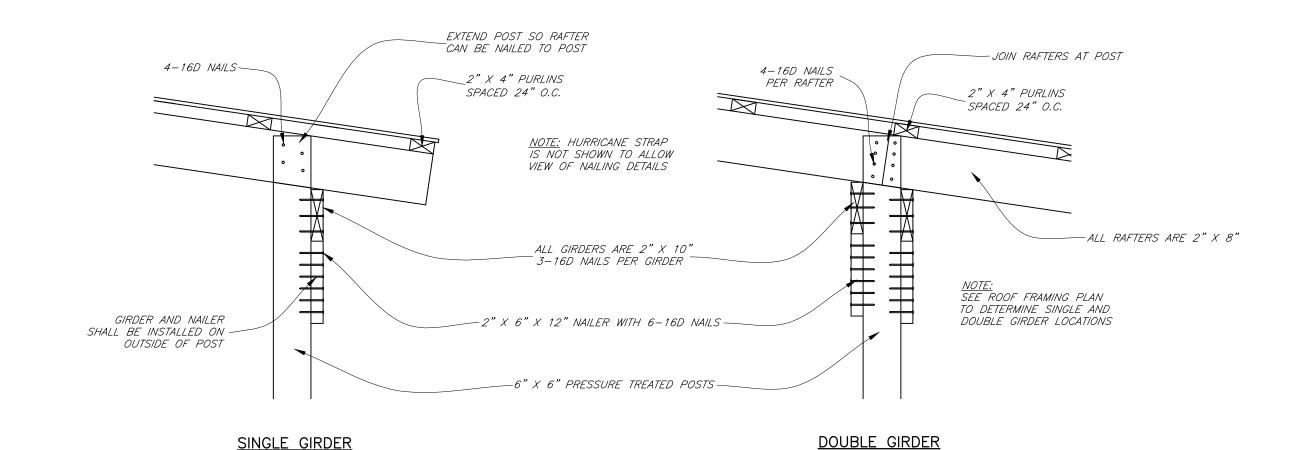
DATE APPROVED TITLE

09/05 H MCFARLAND STATE ENGINEER

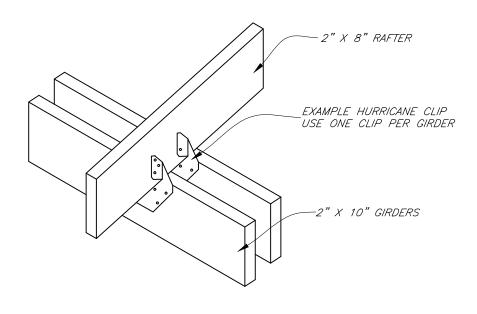
01/06 H MCFARLAND STATE ENGINEER

07/07 H MCFARLAND STATE ENGINEER

07/13 D ROBERTS ACTING STATE ENGINEE

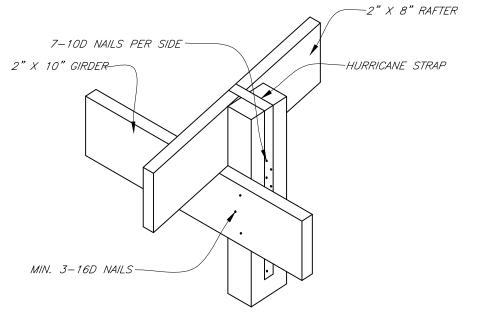


# GIRDER AND RAFTER TO POST CONNECTIONS



# NOTES:

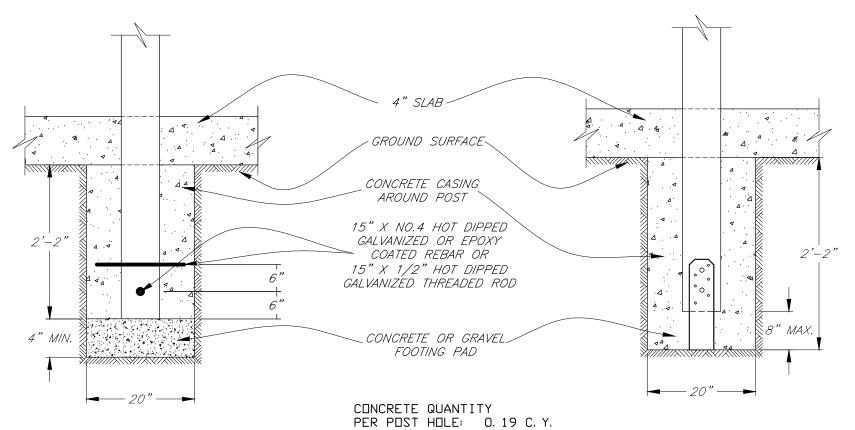
- 1. MINIMUM UPLIFT RESISTANCE FOR HURRICANE STRAP IS 746 LBS.
- 2. STRAP SHALL BE 2" OR WIDER. CENTER STRAP ON RAFTER TO RAFTER BUTT JOINTS ON CENTER POSTS.
- 3. USE MANUFACTURED HURRICANE CLIP FOR RAFTER TO GIRDER CONNECTIONS (WITHOUT POSTS). MINIMUM UPLIFT RESISTANCE IS 251 LBS PER CLIP. AN EXAMPLE IS SHOWN AT LEFT. INSTALL ACCORDING TO MANUFACTURER'S SPECIFICATIONS.



**HURRICANE STRAP** (USE AT RAFTER TO GIRDER CONNECTIONS WITH POSTS)

HURRICANE CLIP (USE AT RAFTER TO GIRDER CONNECTIONS WITHOUT POSTS)



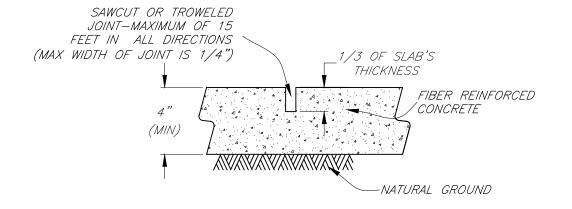


### NOTES:

- EXAMPLE CONNECTOR SHOWN AT LEFT.
- 2. MINIMUM UPLIFT RESISTANCE REQUIRED *IS 1574 LBS.*
- 3. INSTALL ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- 4. CONNECTOR SHALL BE GALVANIZED.
- 5. REBAR OR MECHANICAL POST ANCHOR REQUIRED FOR FULL POSTS ONLY.
- 6. MECHANICAL POST ANCHOR MAY BE USED INSTEAD OF REBAR.

CONCRETE POST FOOTING DETAIL

MECHANICAL POST ANCHOR CONCRETE FOOTING DETAIL



FIBER REINFORCED CONTRACTION JOINT

# WOOD TREATMENT TABLE

MINIMUM RETENTION RATES IN PCF						
USE	CCA	ACQ-C/D	CBA-A	CA-B	MCA	
GROUND CONTACT OR FRESH WATER	0.40	0.40	0.41	0.21	0.15	
IMPORTANT STRUCTURAL MEMBERS	0.60	0.60	0.61	0.31	0.23	

CCA - CHROMATED COPPER ARSENATE ACQ-C/D - ALKALINE COPPER QUATERNARY CBA-A & CA-B - COPPER AZOLE MCA - MICRONIZED COPPER AZOLE

- 1. ALL WOODEN WALLS, HALF POSTS, AND BIN FRONT WOOD SHALL MEET THE GROUND CONTACT RATES.
- 2. ALL SUPPORT POSTS SHALL MEET THE IMPORTANT STRUCTURAL MEMBER RATES.

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